

3-7-89
12.3.8 v.4



MAR 9 1989

6415 S.W. Canyon Court • Suite 100 • Portland, Oregon 97221 • (503) 297-5676

#210.01

March 7, 1989

City of Seattle
408 Municipal Building
Seattle, WA 98104

Attention: Mr. Will Harriston
Chief Electrical Inspector

Subject: Ash Grove Cement West, Inc.
Electrical Modification
Permit No. 665376

Gentlemen:

This project involves installation of a new plant transformer and switchgear to serve two existing buildings. The culmination of this work will allow us to retire the old plant 2,300 volt power distribution system.

One of the existing buildings that is being reconnected has two services. One is at 120/240 volts, 1-phase, 3-wire and the other is at 240 volts, 3-phase, 3-wire. These services have been in operation from the original plant 2,300 volt distribution for over 50 years. Since this building's 3-phase panel serves only heating and motor loads we are reconnecting it from the new 480/277 volt substation via a delta to delta 3-phase transformer with a secondary of 240 volts.

We have been informed by your inspector (Mr. Bath) that ungrounded 240-volt delta power systems are not permitted by the City of Seattle except by special permission. Therefore, we hereby request your permission to allow us to reconnect this building with the 240-volt, 3-wire system. We would like to point out that we did not select this voltage configuration as a part of a new system design, but to reconnect an existing system at its original characteristic of service. We understand that you may require some ground monitoring equipment. Please advise us of your requirements and we are sure they can be complied with.



AGC2F000019

City of Seattle
Page 2, #210.01
March 7, 1989

Finally, we would appreciate your prompt consideration of this matter. The plans were submitted on December 12, 1988 for an advance plan examination and permit. The new substation is scheduled to be energized on March 11, 1989 and we were informed of this problem just last week. If you approve the 240-volt, 3-wire installation in this case we would also encourage you to consider conditional approval to proceed with the switchgear energization.

The timing of the conversion of this part of the plant to the new substation impacts the scheduled removal (March 15, 1989) of a PCB transformer in the old plant system. We need to know your ruling as soon as possible so that work crews can be rescheduled, if necessary.

If you have any questions, please contact me directly at my office. We wish to thank you in advance for your prompt attention to our project.

Sincerely,



Mark C. Wirfs, P.E.
Electrical Engineer

MCW:mc

cc: Ken Rone, Ashgrove Cement
Bob Witty, Midland Electric